

**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC 7 H01L23/58

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 H01L G06K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 02/43147 A (JANKE MARCUS ; INFINEON TECHNOLOGIES AG (DE)) 30 May 2002 (2002-05-30) page 1, line 12 - page 6, line 2 page 6, line 7 - page 9, line 5; figures 1a,1b -----	1-14
P, X	WO 2004/038800 A (BAUKUS JAMES P ; CHOW LAP-WAI (US); YANG PAUL OU (US); CLARK WILLIAM M) 6 May 2004 (2004-05-06) page 1, lines 13-18 page 3, lines 19-26 page 5, lines 13-24 page 6, lines 6-20 page 7, line 20 - page 10, line 2; figures 3-6 page 10, line 24 - page 12, line 10 ----- -/-	1-14

 Further documents are listed in the continuation of box C. Patent family members are listed in annex.

## \* Special categories of cited documents:

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the International filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- "&" document member of the same patent family

Date of the actual completion of the International search  20 October 2004	Date of mailing of the International search report  03/11/2004
Name and mailing address of the ISA  European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer  Corchia, A

## INTERNATIONAL SEARCH REPORT

International Application No
PCT/IB2004/051117

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6 137 318 A (KODAMA TAKAAKI) 24 October 2000 (2000-10-24) column 3, line 66 - column 5, line 49; figures 11A,11B column 6, line 36 - column 9, line 12 column 13, line 15 - column 14, line 45; figures 3,4A,4B column 16, lines 3-58; figure 6 column 17, line 38 - column 18, line 55; figures 8A-8C column 19, line 5 - column 20, line 6 -----	1-14
A	US 2002/024148 A1 (ITOH NIICHI) 28 February 2002 (2002-02-28) paragraphs '0006! - '0014! paragraphs '0039! - '0045!; figure 12 paragraphs '0050! - '0084!; figures 2-11 -----	1-14

## INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No  
PCT/IB2004/051117

Patent document cited in search report	Publication date	Patent family member(s)		Publication date
WO 0243147	A 30-05-2002	DE 10058078 C1		11-04-2002
		BR 0115535 A		03-02-2004
		CN 1476635 T		18-02-2004
		WO 0243147 A1		30-05-2002
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US 2002024148	A1 28-02-2002	JP 2002076118 A		15-03-2002
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